

EROSION AND SEDIMENT CONTROL GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY MDE AT (410) 537-3510 SEVEN (7) DAYS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY AND, UNLESS WAIVED BY MDE, SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN PROJECT REPRESENTATIVES AND REPRESENTATIVE OF MDE.

2. THE CONTRACTOR SHALL NOTIFY MDE IN WRITING AND BY TELEPHONE AT THE FOLLOWING POINTS:

- A. THE REQUIRED PRE-CONSTRUCTION MEETING.
- B. FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES.
- C. DURING THE INSTALLATION OF SEDIMENT BASINS (TO BE CONVERTED INTO PERMANENT STORMWATER MANAGEMENT STRUCTURES) AT THE REQUIRED INSPECTION POINTS (SEE INSPECTION CHECKLIST ON PLAN). NOTIFICATION PRIOR TO COMMENCING CONSTRUCTION OF EACH STEP IS MANDATORY.
- D. PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE(S).
- E. PRIOR TO REMOVAL OF ALL SEDIMENT CONTROL DEVICES.
- F. PRIOR TO FINAL ACCEPTANCE.

3. THE PLAN APPROVAL LETTER, APPROVED EROSION AND SEDIMENT CONTROL PLANS, DAILY LOG BOOKS, AND TEST REPORTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION BY DULY AUTHORIZED OFFICIALS OF MDE AND THE AGENCY RESPONSIBLE FOR THE PROJECT.

4. THE CONTRACTOR SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE AND SHALL HAVE THEM INSPECTED AND APPROVED BY THE MDE INSPECTOR PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES. MINOR SEDIMENT CONTROL DEVICE LOCATION ADJUSTMENTS MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE MDE INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURE WITHOUT PRIOR PERMISSION FROM MDE INSPECTOR. THE CONTRACTOR SHALL OBTAIN PRIOR AGENCY AND MDE APPROVAL FOR MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL PLAN AND/OR SEQUENCE OF CONSTRUCTION.

5. THE MDE INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SAFETY OR SEDIMENT CONTROL MEASURES, IF DEEMED NECESSARY.

6. THE CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO PUBLIC ROADS. ALL MATERIALS DEPOSITED ONTO PUBLIC ROADS SHALL BE REMOVED IMMEDIATELY.

7. THE CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN AN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIME AS THEY ARE REMOVED WITH PRIOR PERMISSION FROM THE MDE INSPECTOR.

8. EROSION AND SEDIMENT CONTROL FOR UTILITY CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH APPROVED PLANS. UTILITY CONSTRUCTION SHALL ONLY BE FOR AREAS WITHIN THE DELINEATED LIMIT OF DISTURBANCE. CALL "MISS UTILITY" AT 1-800-257-7777 48 HOURS PRIOR TO THE START OF WORK. WHEN SAME DAY STABILIZATION IS APPROVED:

- A. EXCAVATED TRENCH MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF THE TRENCH.
- B. TRENCHES FOR UTILITY INSTALLATION SHALL BE BACK FILLED, COMPACTED, AND STABILIZED AT THE END OF EACH WORKING DAY. NO MORE TRENCH SHALL BE OPENED THAN CAN BE COMPLETED THE SAME DAY.

9. ALL WATER REMOVED FROM EXCAVATED AREAS SHALL BE PASSED THROUGH AN MDE APPROVED DEWATERING PRACTICE OR PUMPED TO A SEDIMENT TRAP OR BASIN PRIOR TO DISCHARGE TO A FUNCTIONAL STORM DRAIN SYSTEM OR TO STABLE GROUND SURFACE.

10. CONCRETE WASHOUT STRUCTURES SHALL BE USED WHEN CONCRETE TRUCKS, DRUMS, PUMPS, CHUTES, OR OTHER EQUIPMENT IS RINSED OR CLEANED ON-SITE.

11. CONSTRUCTION ACTIVITIES PRODUCING DUST SHALL IMPLEMENT CONTROL MEASURES TO AVOID THE SUSPENSION OF DUST PARTICLES AND/OR PREVENT DUST FROM BLOWING OFF-SITE OR TO AREAS WITHOUT TREATMENT.

12. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:

- A. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
- B. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

13. VEGETATION STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. REFER TO APPROPRIATE SPECIFICATIONS FOR TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, SODDING, AND GROUND COVERS.

14. WHEN SEEDING, ALL DISTURBED AREAS WITH SLOPES FLATTER THAN 2:1 SHALL BE STABILIZED WITH 4 INCHES OF TOPSOIL, SEED, AND MULCH. ALL DISTURBED AREAS WITH SLOPES 2:1 OR STEEPER SHALL BE STABILIZED WITH MATTING OVER 2 INCHES OF TOPSOIL AND SEED.

15. ALL SEDIMENT BASINS, TRAP EMBANKMENTS AND SLOPES, PERIMETER DIKES, SWALES AND ALL DISTURBED SLOPES STEEPER OR EQUAL TO 3:1 SHALL BE STABILIZED WITH SEED AND ANCHORS STRAW MULCH, SOD, OR OTHER APPROVED STABILIZATION MEASURES, AS SOON AS POSSIBLE BUT AREAS DISTURBED OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM SHALL BE MINIMIZED. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.

16. PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITH SEED AND AN APPROVED EROSION CONTROL MATTING, SOD, RIP-RAP, OR OTHER APPROVED STABILIZATION MEASURES.

17. FOR STOCKPILE SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1), THE CONTRACTOR SHALL APPLY SEED AND ANCHORED STRAW MULCH, SOD, OR OTHER APPROVED STABILIZATION MEASURES TO THE FACE OF THE STOCKPILE WITHIN THREE (3) CALENDAR DAYS OF ACTIVITY HAVING CEASED ON THE RESPECTIVE FACE. FOR SLOPES 3:1 OF FLATTER, THE CONTRACTOR SHALL APPLY STABILIZATION MEASURES TO THE FACE OF THE STOCKPILE WITHIN SEVEN (7) CALENDAR DAYS OF ACTIVITY HAVING CEASED ON THE RESPECTIVE FACE. MAINTENANCE SHALL BE PERFORMED NECESSARY TO ENSURE CONTINUED STABILIZATION.

18. FOR FINISHED GRADING, THE CONTRACTOR SHALL PROVIDE ADEQUATE GRADIENTS TO PREVENT WATER FROM PONDING FOR MORE THAN TWENTY-FOUR (24) HOURS AFTER THE END OF A RAINFALL EVENT. DRAINAGE COURSES AND SWALE FLOW AREAS MAY TAKE AS LONG AS FORTY-EIGHT (48) HOURS AFTER THE END OF A RAINFALL EVENT TO DRAIN. AREAS DESIGNED TO HAVE STANDING WATER SHALL NOT BE REQUIRED TO MEET THIS REQUIREMENT.

19. WHERE DEEMED APPROPRIATE BY THE ENGINEER OR INSPECTOR, SEDIMENT BASINS AND TRAPS MAY NEED TO BE SURROUNDED WITH AN APPROVED SAFETY FENCE. THE FENCE MUST CONFORM TO LOCAL ORDINANCES AND REGULATIONS. THE DEVELOPER OR OWNER SHALL CHECK WITH LOCAL BUILDING OFFICIALS ON APPLICABLE SAFETY REQUIREMENTS. WHERE SAFETY FENCE IS DEEMED APPROPRIATE AND LOCAL ORDINANCES DO NOT SPECIFY FENCING SIZES AND TYPES, THE FOLLOWING SHALL BE USED AS A MINIMUM STANDARD: THE SAFETY FENCE SHALL BE MADE OF WELDED WIRE AND AT LEAST 42 INCHES HIGH, HAVE POSTS SPACED NO FARTHER APART THAN 8 FEET, HAVE MESH OPENINGS NO GREATER THAN 2 INCHES IN WIDTH AND 4 INCHES IN HEIGHT WITH A MINIMUM OF 14 GAUGE WIRE. SAFETY FENCE SHALL BE MAINTAINED AND IN GOOD CONDITION AT ALL TIMES.

20. ALL SEDIMENT TRAP DEPTH DIMENSIONS ARE RELATIVE TO THE OUTLET ELEVATION. ALL TRAPS SHALL HAVE A STABLE OUTFALL. ALL TRAPS AND BASINS SHALL HAVE STABLE INFLOW POINTS.

21. SEDIMENT SHALL BE REMOVED AND THE TRAP OR BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE QUARTER OF THE TOTAL DEPTH OF THE TRAP OR BASIN. TOTAL DEPTH SHALL BE MEASURED FROM THE TRAP OR BASIN BOTTOM TO THE CREST OF THE OUTLET.

22. SEDIMENT REMOVED FROM TRAPS (AND BASINS) SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN, WETLAND OR TREE-SAVE AREA. WHEN PUMPING SEDIMENT LADEN WATER, THE DISCHARGE SHALL BE DIRECTED TO AN MDE APPROVED SEDIMENT TRAPPING DEVICE PRIOR TO RELEASE FROM THE SITE. A SUMP PIT MAY BE USED IF SEDIMENT TRAPS THEMSELVES ARE BEING PUMPED OUT.

23. PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES, THE CONTRACTOR SHALL STABILIZE AND HAVE ESTABLISHED PERMANENT STABILIZATION FOR ALL CONTRIBUTORY DISTURBED AREAS USING SOD OR AN APPROVED PERMANENT SEED MIXTURE WITH REQUIRED SOIL AMENDMENTS AND AN APPROVED ANCHORED MULCH. WOOD FIBER MULCH MAY ONLY BE USED IN SEEDING SEASON WHERE THE SLOPE DOES NOT EXCEED 10% AND GRADING HAS BEEN DONE TO PROMOTE SHEET FLOW DRAINAGE. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED AS SOON AS POSSIBLE, BUT NOT LATER THAN THREE (3) CALENDAR DAYS AFTER ESTABLISHMENT FOR SLOPES STEEPER THAN 3 HORIZONTAL AND TO 1 VERTICAL (3:1) AND SEVEN (7) CALENDAR DAYS FOR FLATTER SLOPES. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS OF NOVEMBER THROUGH FEBRUARY, AND PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, TEMPORARY SEED AND ANCHORED STRAW MULCH SHALL BE APPLIED TO DISTURBED AREAS. THE FINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE APPLIED BY MARCH 15 OR EARLIER IF GROUND AND WEATHER CONDITIONS ALLOW.

24. TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE REMOVED WITH PERMISSION OF THE MDE INSPECTOR WITHIN THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. UPON REMOVAL OF SEDIMENT CONTROL DEVICES, THE AREA DISTURBED BY REMOVAL SHALL BE STABILIZED WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED, WITHIN 24 HOURS OF SAID REMOVAL. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL.

25. OFF-SITE SPOIL OR BORROW AREAS ON STATE OR FEDERAL PROPERTY SHALL HAVE PRIOR APPROVAL BY MDE AND OTHER APPLICABLE STATE, FEDERAL, AND LOCAL AGENCIES; OTHERWISE APPROVAL SHALL BE GRANTED BY THE LOCAL AUTHORITIES. ALL WASTE AND BORROW AREAS OFF-SITE SHALL BE PROTECTED BY SEDIMENT CONTROL MEASURES AND STABILIZED.

26. SITE INFORMATION:
- A. AREA DISTURBED 1.53 -- ACRES
  - B. TOTAL CUT ----- CUBIC YARDS
  - C. TOTAL FILL ----- CUBIC YARDS
  - D. OFF-SITE WASTE/BORROW AREA LOCATION -----

NOTES TO CONTRACTOR:

- 1. EROSION AND SEDIMENT CONTROL SHALL BE STRICTLY ENFORCED.
- 2. THERE ARE NO SEDIMENT TRAPS OR STORMWATER PONDS IN THIS PROJECT.
- 3. STABILIZATION USING SOD OR PERMANENT SEED MIXTURE (SEE GENERAL NOTE 23) IS NOT PRACTICAL FOR THIS PROJECT. AN ALTERNATIVE FORM OF STABILIZATION SHALL BE IDENTIFIED AND UTILIZED AT ALL SITES.

STANDARD STABILIZATION NOTE:

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

OWNER’S/DEVELOPER’S CERTIFICATION

I / WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I/WE HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY APPROPRIATE INSPECTION AND ENFORCEMENT AUTHORITY OR THE STATE OF MARYLAND, DEPARTMENT OF THE ENVIRONMENT. I/WE HEREBY CERTIFY THAT STORMWATER MANAGEMENT FACILITIES WILL BE MAINTAINED IN ACCORDANCE WITH APPROVED PLANS.


DATE	OWNER/DEVELOPER SIGNATURE
RESPONSIBLE PERSONNEL BY CERTIFICATION NO.	PRINTED NAME AND TITLE

DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I & II INCLUDING SUPPLEMENTS, THE ENVIRONMENT ARTICLE SECTIONS 4-101 THROUGH 116 AND SECTIONS 4-201 AND 215, AND THE CODE OF MARYLAND REGULATIONS (COMAR) 26.17.01 AND COMAR 26.17.02 FOR EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT, RESPECTIVELY.

DATE	DESIGNER’S SIGNATURE
MARYLAND REGISTRATION NO. P.E., R.L.S, R.L.A, R.A.	PRINTED NAME

CONTRACT NO.  
FQ19172

DESIGNED _____ DATE _____  DRAWN _____ DATE _____  CHECKED _____ DATE _____  APPROVED _____ DATE _____	REFERENCE DRAWINGS		REVISIONS		 <b>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</b>  DEPARTMENT OF CAPITAL PROGRAM DELIVERY OFFICE OF ENGINEERING AND ARCHITECTURE  SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____	<b>WALHONDING TRESTLE DEMOLITION TASK ORDER 20-FQ19172-INFR-005 EROSION AND SEDIMENT CONTROL GENERAL NOTES SHEET 1</b>	
	NUMBER	TITLE	DATE	NUM			DESCRIPTION
SCALE AS NOTED		DRAWING NO. EN-01		SHEET NO. 02 of 10			

## B-4-1 STANDARD AND SPECIFICATIONS FOR INCREMENTAL STABILIZATION

4. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.
5. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:
  - a. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, OR OTHER MATERIALS LARGER THAN 1 1/2 INCHES IN DIAMETER.
  - b. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
  - c. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
6. TOPSOIL APPLICATION
  - a. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.
  - b. UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPASS TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
  - c. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

## FIGURE B.2: INCREMENTAL STABILIZATION – FILL

1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.
2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.
3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.
4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

## 90% PLANS - NOT FOR CONSTRUCTION



## 90% PLANS - NOT FOR CONSTRUCTION



- a. GENERAL SPECIFICATIONS
- b. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.
- c. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 61/64 INCH, PLUS OR MINUS 57/64 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
- d. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
- e. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
- f. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.

2. SOD INSTALLATION
  - a. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
  - b. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.
  - c. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS. ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO PREVENT SLIPPAGE ON SLOPES. ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE.
  - d. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UN THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE T OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT HOURS.

3. SOD MAINTENANCE
  - a. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING.
  - b. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT.
  - c. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN 1/4 OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.

ON NEWLY SEEDDED SURFACES TO PREVENT THE APPLIED SEED FROM WASHING OUT; IN CHANNELS AND ON STEEP SLOPES WHERE THE FLOW HAS EROSION VELOCITIES OR CONVEYS CLEAR WATER; ON TEMPORARY SWALES, EARTH DIKES, AND PERIMETER DIKE SWALES AS REQUIRED BY THE RESPECTIVE DESIGN STANDARD; AND, ON STREAM BANKS WHERE MOVING WATER IS LIKELY TO WASH OUT NEW VEGETATIVE PLANTINGS.

1. THE SOIL STABILIZATION MATTING THAT IS USED MUST WITHSTAND THE FLOW VELOCITIES AND SHEAR STRESSES DETERMINED FOR THE AREA, BASED ON THE 2-YEAR, 24-HOUR FREQUENCY STORM FOR TEMPORARY APPLICATIONS AND THE 10-YEAR, 24-HOUR FREQUENCY STORM FOR PERMANENT APPLICATIONS. DESIGNATE ON THE PLAN THE TYPE OF SOIL STABILIZATION MATTING USING THE STANDARD SYMBOL AND INCLUDE THE CALCULATED SHEAR STRESS FOR THE RESPECTIVE TREATMENT AREA.

2. MATTING IS REQUIRED ON PERMANENT CHANNELS WHERE THE RUNOFF VELOCITY EXCEEDS TWO AND HALF FEET PER SECOND (2.5 FPS) OR THE SHEAR STRESS EXCEEDS TWO POUNDS PER SQUARE FOOT (2 LBS/FT<sup>2</sup>). ON TEMPORARY CHANNELS DISCHARGING TO A SEDIMENT TRAPPING PRACTICE, PROVIDE MATTING WHERE THE RUNOFF VELOCITY EXCEEDS FOUR FEET PER SECOND (4 FPS).

3. TEMPORARY SOIL STABILIZATION MATTING IS MADE WITH DEGRADABLE (LASTS 6 MONTHS MINIMUM), NATURAL, OR MANMADE FIBERS OF UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND IS SMOLDER RESISTANT. THE MAXIMUM PERMISSIBLE VELOCITY FOR TEMPORARY MATTING IS 6 FEET PER SECOND.

4. PERMANENT SOIL STABILIZATION MATTING IS AN OPEN WEAVE SYNTHETIC MATERIAL CONSISTING OF NON DEGRADABLE FIBERS OF ELEMENTS OF UNIFORM THICKNESS AND DISTRIBUTION OF WEAVE THROUGHOUT. THE MAXIMUM PERMISSIBLE VELOCITY FOR PERMANENT MATTING IS 8.5 FEET PER SECOND.

5. CALCULATE CHANNEL VELOCITY AND SHEAR STRESS USING THE FOLLOWING PROCEDURE:

SHEAR STRESS ( $\tau$ ) IS A MEASURE OF THE FORCE OF MOVING WATER AGAINST THE SUBSTRATE AND IS CALCULATED AS:

WHERE:

 $\tau$  = SHEAR STRESS (LB/FT<sup>2</sup>) $\gamma$  = WEIGHT DENSITY OF WATER (62.4 LB/FT<sup>3</sup>)

R = AVERAGE WATER DEPTH (HYDRAULIC RADIUS) (FT)

$S_w$  = WATER SURFACE SLOPE (FT/FT)

VEGETATION MUST BE ESTABLISHED AND MAINTAINED SO THAT THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

1. A MINIMUM 4-INCH BASE COURSE OF CRUSHED STONE OR OTHER SUITABLE MATERIALS INCLUDING WOOD CHIPS OVER NONWOVEN GEOTEXTILE SHOULD BE PROVIDED AS SPECIFIED IN SECTION H-1 MATERIALS.
2. SELECT THE STABILIZING MATERIAL BASED ON THE INTENDED USE, DESIRED MAINTENANCE FREQUENCY, AND RUNOFF CONTROL.
3. THE TRANSPORT OF SEDIMENTS, NUTRIENTS, OILS, CHEMICALS, PARTICULATE MATTER ASSOCIATED WITH VEHICULAR TRAFFIC AND EQUIPMENT, AND MATERIAL STORAGE NEEDS TO BE CONSIDERED IN THE SELECTION OF MATERIAL. ADDITIONAL CONTROL MEASURES MAY BE NECESSARY TO CONTROL SOME OF THESE POTENTIAL POLLUTANTS.
4. SURFACE EROSION CAN BE A PROBLEM ON LARGE HEAVY USE AREAS. IN THESE SITUATIONS, MEASURES TO REDUCE THE FLOW LENGTH OF RUNOFF OR EROSION VELOCITIES NEED TO BE CONSIDERED.

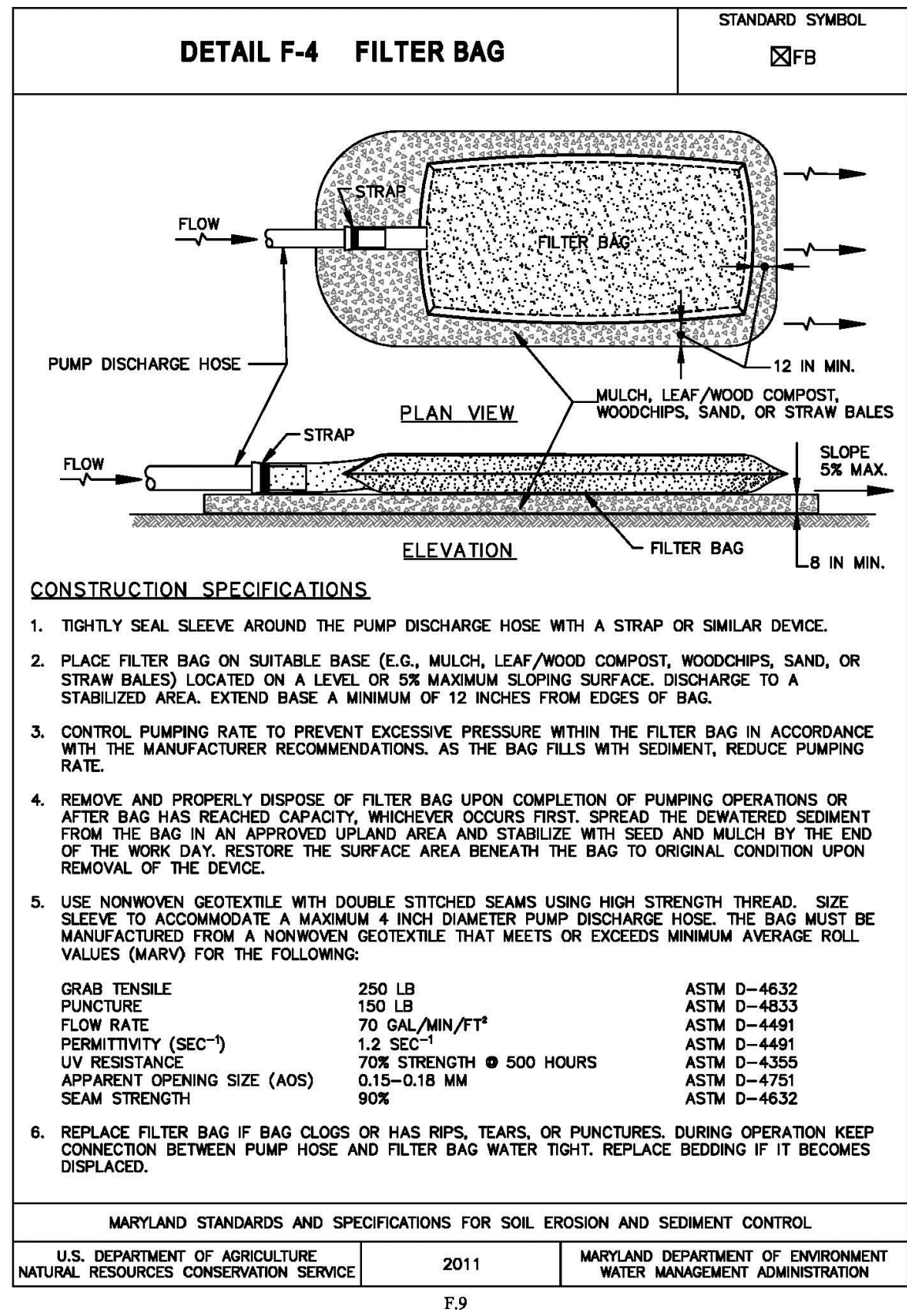
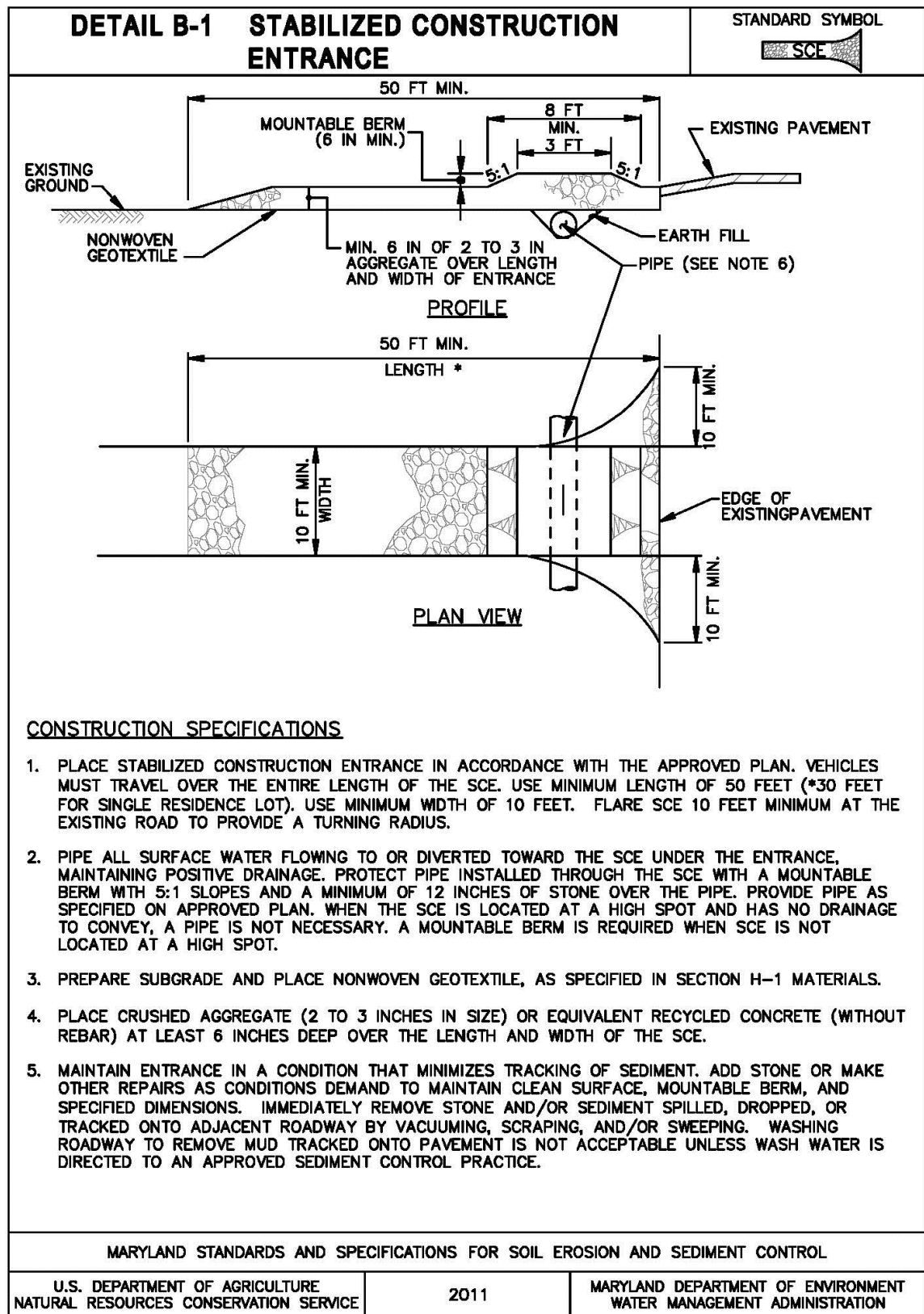
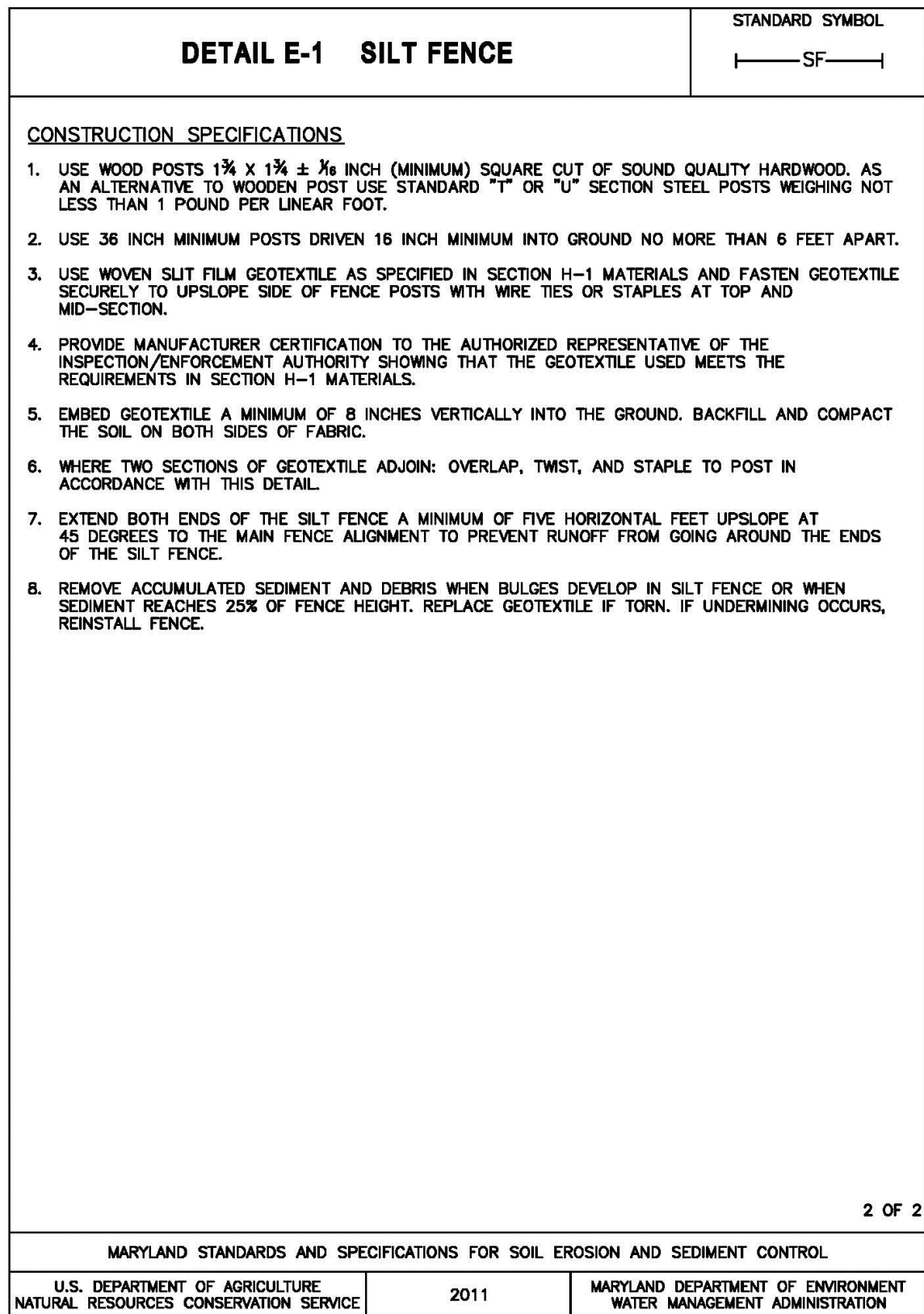
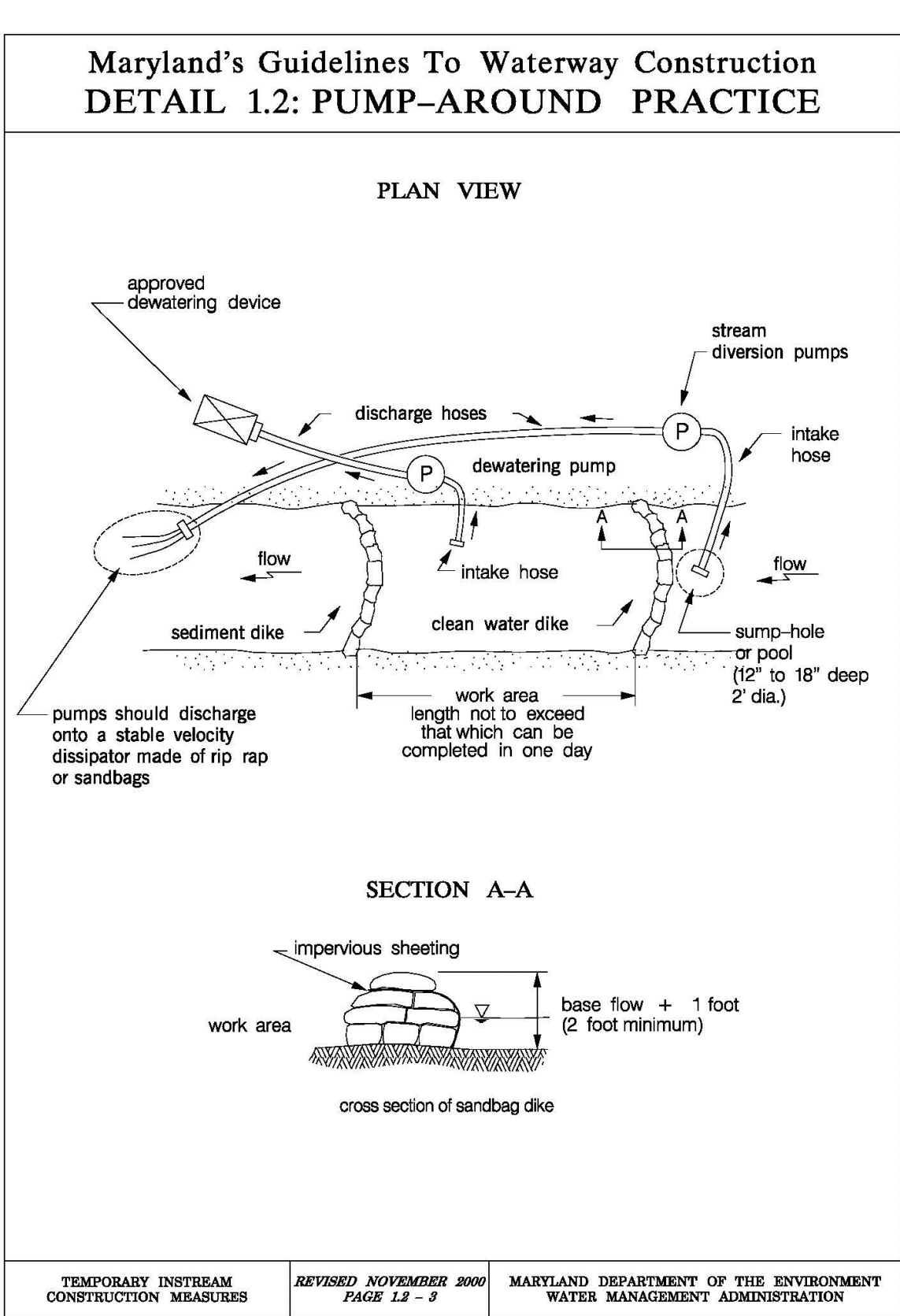
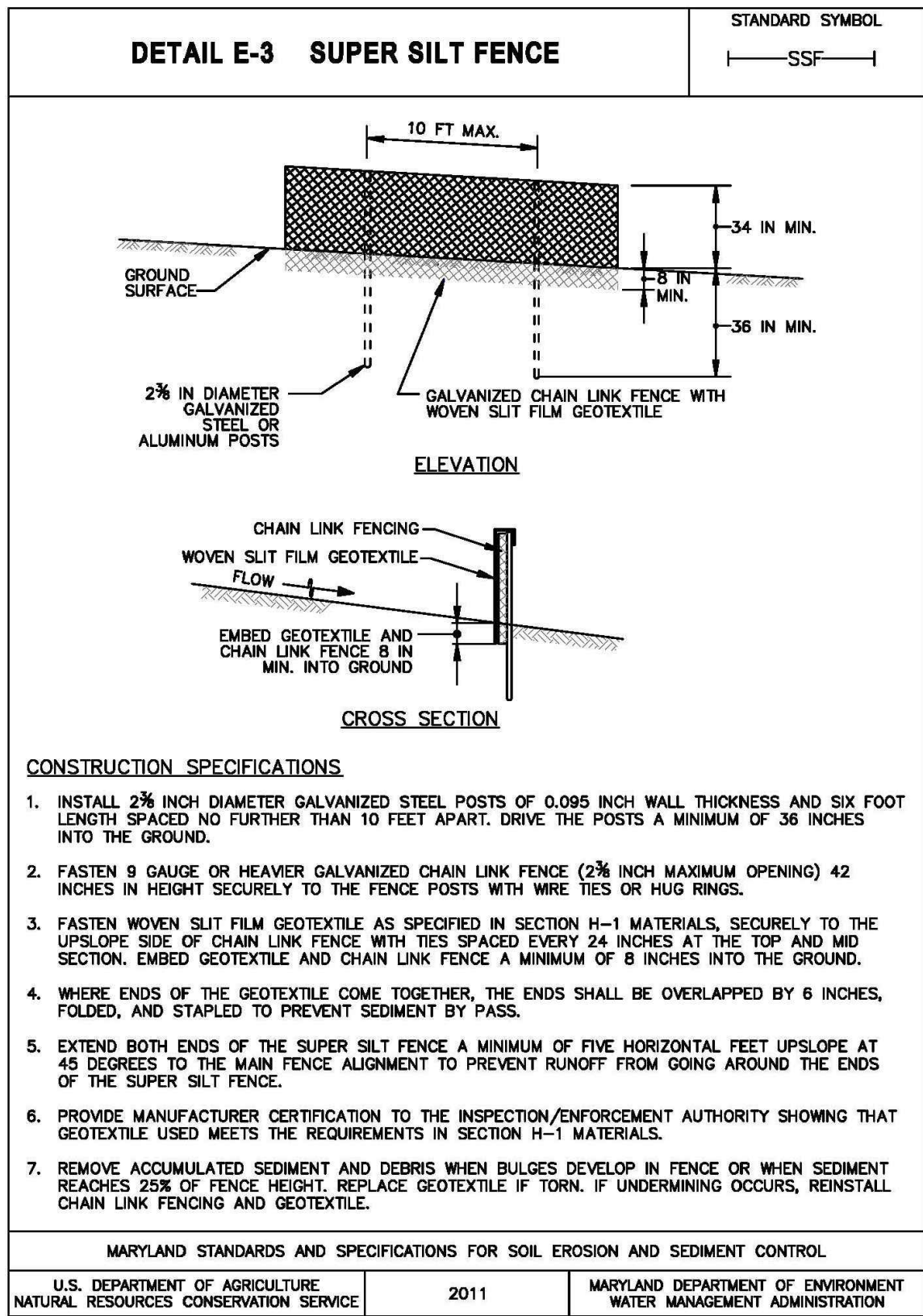
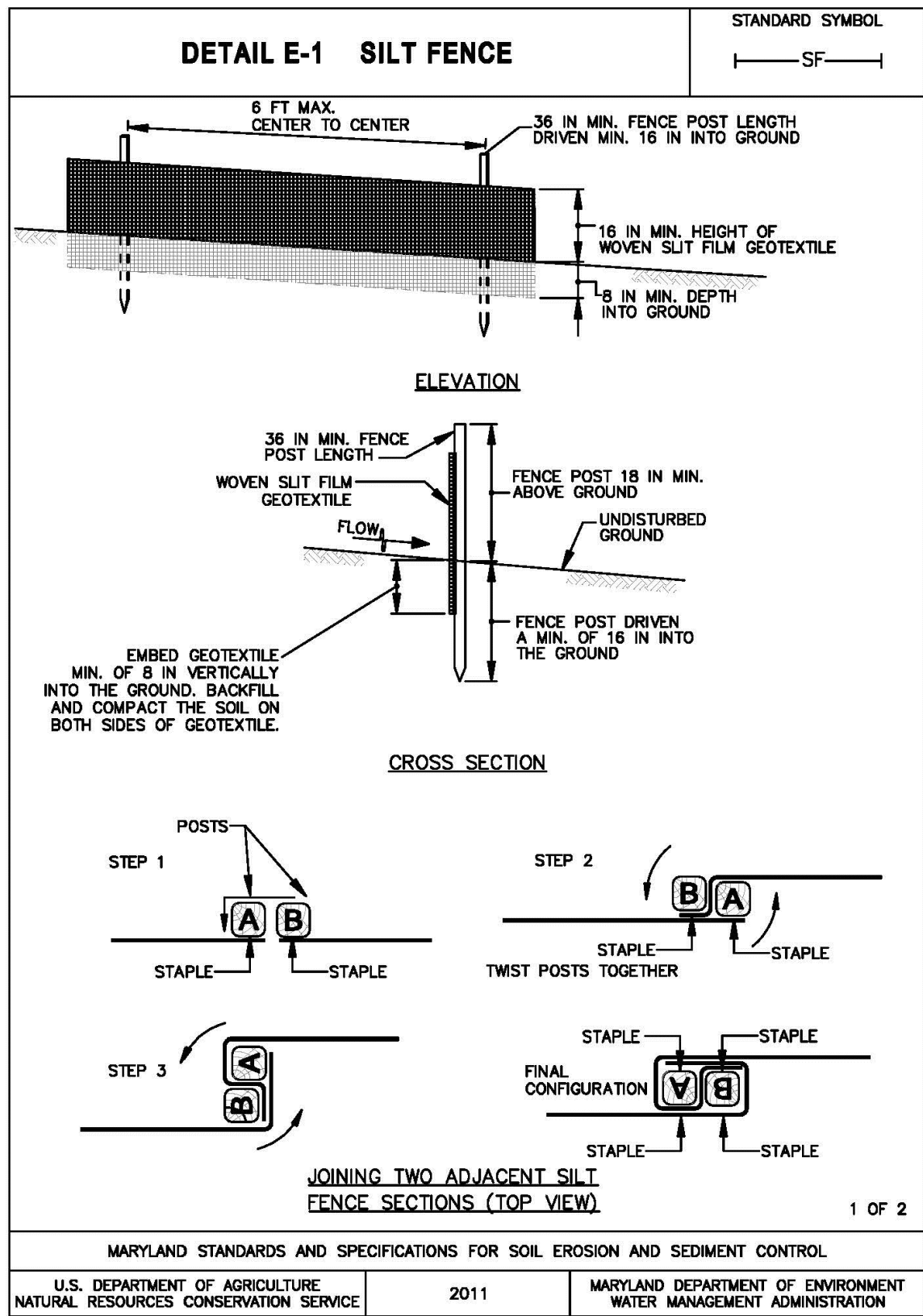
THE HEAVY USE AREAS MUST BE MAINTAINED IN A CONDITION THAT MINIMIZES EROSION. THIS MAY REQUIRE ADDING SUITABLE MATERIAL, AS SPECIFIED ON THE APPROVED PLANS, TO MAINTAIN A CLEAN SURFACE.

1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN.
2. THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THAN 2:1. BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.
3. RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL PRACTICE.
4. ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE.
5. CLEAR WATER RUNOFF INTO THE STOCKPILE AREA MUST BE MINIMIZED BY USE OF A DIVERSION DEVICE SUCH AS AN EARTH DIKE, TEMPORARY SWALE OR DIVERSION FENCE. PROVISIONS MUST BE MADE FOR DISCHARGING CONCENTRATED FLOW IN A NON-EROSIVE MANNER.
6. WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE FILL, AN APPROPRIATE EROSION/SEDIMENT CONTROL PRACTICE MUST BE USED TO INTERCEPT THE DISCHARGE.
7. STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION REQUIREMENT AS WELL AS STANDARD B-4-1 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION.
8. IF THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LINER SHOULD BE PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING.

THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4. VEGETATIVE STABILIZATION. SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER THAN A 2:1 RATIO. THE STOCKPILE AREA MUST BE KEPT FREE OF EROSION. IF THE VERTICAL HEIGHT OF A STOCKPILE EXCEEDS 20 FEET FOR 2:1 SLOPES, 30 FEET FOR 3:1 SLOPES, OR 40 FEET FOR 4:1 SLOPES, BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.

										CONTRACT NO. FQ19172					
<div>DESIGNED _____ DATE _____</div> <div>DRAWN _____ DATE _____</div> <div>CHECKED _____ DATE _____</div> <div>APPROVED _____ DATE _____</div>	REFERENCE DRAWINGS			REVISIONS					<div><div><div>WMATA</div><div>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</div></div><div>DEPARTMENT OF CAPITAL PROGRAM DELIVERY OFFICE OF ENGINEERING AND ARCHITECTURE</div></div> <div>SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____</div>	<div>WALHONDING TRESTLE DEMOLITION TASK ORDER 20-FQ19172-INFR-005 EROSION AND SEDIMENT CONTROL GENERAL NOTES SHEET 4</div> <div><div>SCALE AS NOTED</div><div>DRAWING NO. EN-04</div><div>SHEET NO. 05 of 10</div></div>					
	NUMBER	TITLE	DATE	NUM	DESCRIPTION										





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REVISIONS			
DATE	NUM	DESCRIPTION	



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF CAPITAL PROGRAM DELIVERY  
OFFICE OF ENGINEERING AND ARCHITECTURE

SUBMITTED BY: \_\_\_\_\_ DATE \_\_\_\_\_ WMATA APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

WALHONDING TRESTLE DEMOLITION  
TASK ORDER 20-FQ19172-INFR-005  
EROSION AND SEDIMENT CONTROL DETAILS

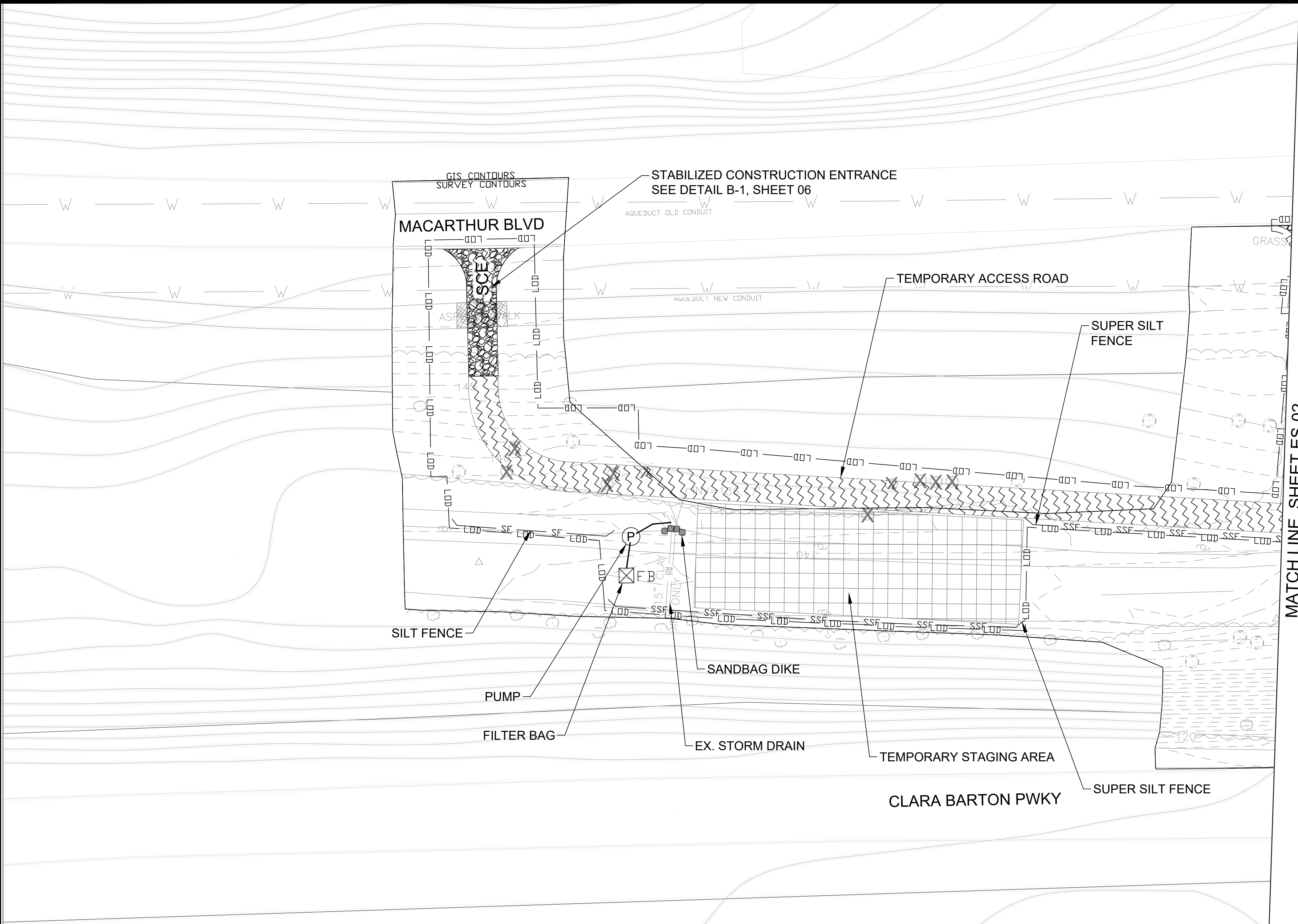
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ED-01

SHEET NO.  
06 of 10

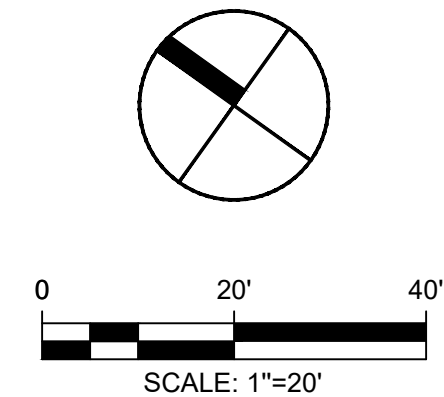
90% PLANS - NOT FOR CONSTRUCTION





- SEQUENCE OF CONSTRUCTION:**
- PRELIMINARY:**
1. OBTAIN ALL PERMITS, APPROVALS, AND LICENSES FROM THE APPROPRIATE AGENCIES.
  2. THE CONTRACTOR MUST NOTIFY ALL APPROPRIATE UTILITY COMPANIES AND AUTHORITIES BEFORE ANY DEMOLITION, EXCAVATION, OR OTHER CONSTRUCTION ACTIVITIES.
  3. STAKE OUT LIMIT OF DISTURBANCE AS SHOWN ON PLAN.
- PHASE 1:**
1. INSTALL PHASE 1 EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING STABILIZED CONSTRUCTION ENTRANCES AND SUPER SILT FENCE, AS SHOWN ON PLANS. PERFORM CLEARING AND GRUBBING AS NECESSARY FOR INSTALLATION OF MEASURES.
  2. INSTALL STREAM PUMP-AROUND PRACTICE, AS SHOWN ON PLANS.
  3. PERFORM CLEARING AND GRUBBING AND TEMPORARY GRADING. REMOVE ASPHALT, AS SHOWN ON PLAN, AS NECESSARY. INSTALL ACCESS ROADS AND TEMPORARY STAGING AREAS.
  4. REMOVE TREES, AS SHOWN ON PLAN.
  5. DEMOLISH TOP STEEL LONGTITUDINAL MEMBERS, INCLUDING RAILROAD TIES, AND TRANSVERSE MEMBERS, AT CONTRACTOR'S DISCRETION.
  6. REMOVE PEDESTAL FOUNDATIONS, AS SHOWN ON PLAN.

- NOTES:**
1. ELEVATIONS TO BE CONFIRMED BY THE CONTRACTOR IN THE FIELD.
  2. PROPOSED SURFACE ELEVATION SPOT GRADES ARE INTENDED TO PROVIDE A GENERAL UNDERSTANDING OF THE GRADING INTENT. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING SITE SURFACE TREATMENTS TO PROVIDE POSITIVE DRAINAGE.
  3. REFER TO STRUCTURAL DRAWINGS S-01 AND S-02 FOR BRIDGE DEMOLITION.
  4. TREE REMOVAL LOCATIONS TO BE STABILIZED WITH SAME-DAY STABILIZATION.
  5. CONTRACTOR SHALL PERFORM UNDER A 3-DAY DRY WEATHER FORECAST.



**LEGEND**

	STAGING AREA		LIMIT OF DISTURBANCE
	TREE REMOVAL		SUPER SILT FENCE
	LIMIT OF EXCAVATION		STABILIZED CONSTRUCTION ENTRANCE
	TEMPORARY ACCESS ROAD		

	REFERENCE DRAWINGS			REVISIONS		
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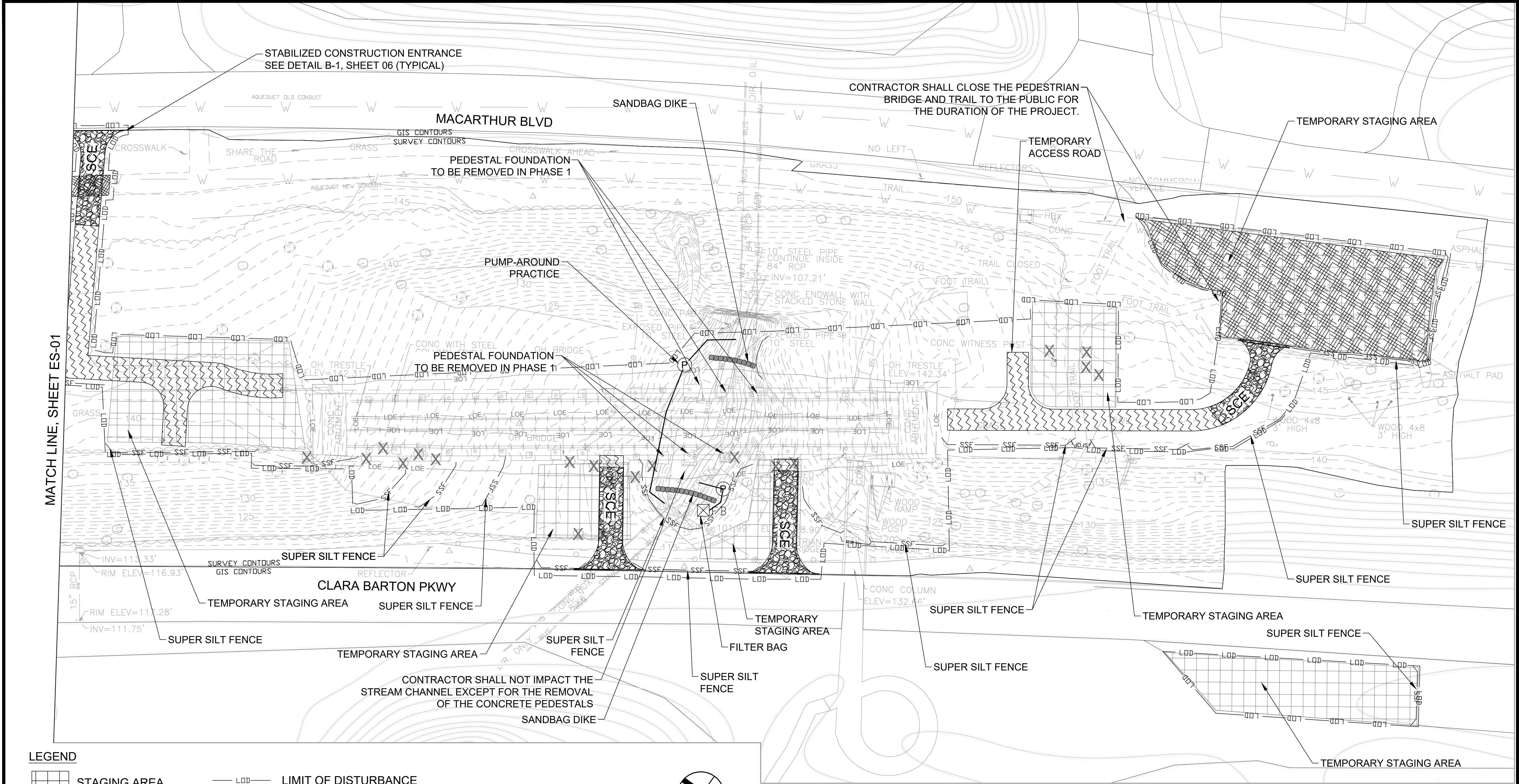
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF CAPITAL PROGRAM DELIVERY  
OFFICE OF ENGINEERING AND ARCHITECTURE

SUBMITTED BY: \_\_\_\_\_ DATE \_\_\_\_\_ WMATA APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

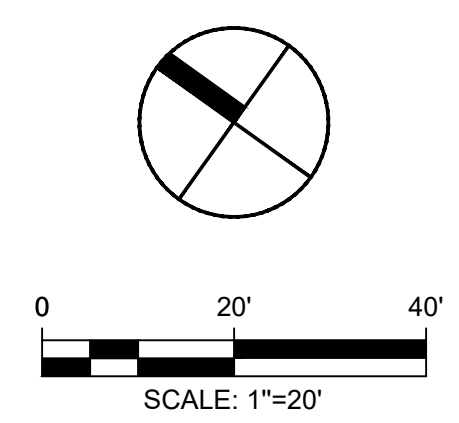
WALHONDING TRESTLE DEMOLITION  
TASK ORDER 20-FQ19172-INFR-005  
EROSION AND SEDIMENT CONTROL PLAN,  
PHASE 1 SHEET 1

SCALE AS NOTED	DRAWING NO. ES-01	SHEET NO. 07 of 10
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LEGEND

- STAGING AREA
- TREE REMOVAL
- TEMPORARY ACCESS ROAD
- LIMIT OF EXCAVATION
- LIMIT OF DISTURBANCE
- SUPER SILT FENCE
- SILT FENCE ON PAVEMENT
- STABILIZED CONSTRUCTION ENTRANCE



NOTES:

1. ELEVATIONS TO BE CONFIRMED BY THE CONTRACTOR IN THE FIELD.
2. PROPOSED SURFACE ELEVATION SPOT GRADES ARE INTENDED TO PROVIDE A GENERAL UNDERSTANDING OF THE GRADING INTENT. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING SITE SURFACE TREATMENTS TO PROVIDE POSITIVE DRAINAGE.
3. REFER TO STRUCTURAL DRAWINGS S-01 AND S-02 FOR BRIDGE DEMOLITION.
4. TREE REMOVAL LOCATIONS TO BE STABILIZED WITH SAME-DAY STABILIZATION.
5. CONTRACTOR SHALL PERFORM UNDER A 3-DAY DRY WEATHER FORECAST.

	REFERENCE DRAWINGS				REVISIONS	
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SUBMITTED BY: \_\_\_\_\_ DATE \_\_\_\_\_ WMATA APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

CONTRACT NO.  
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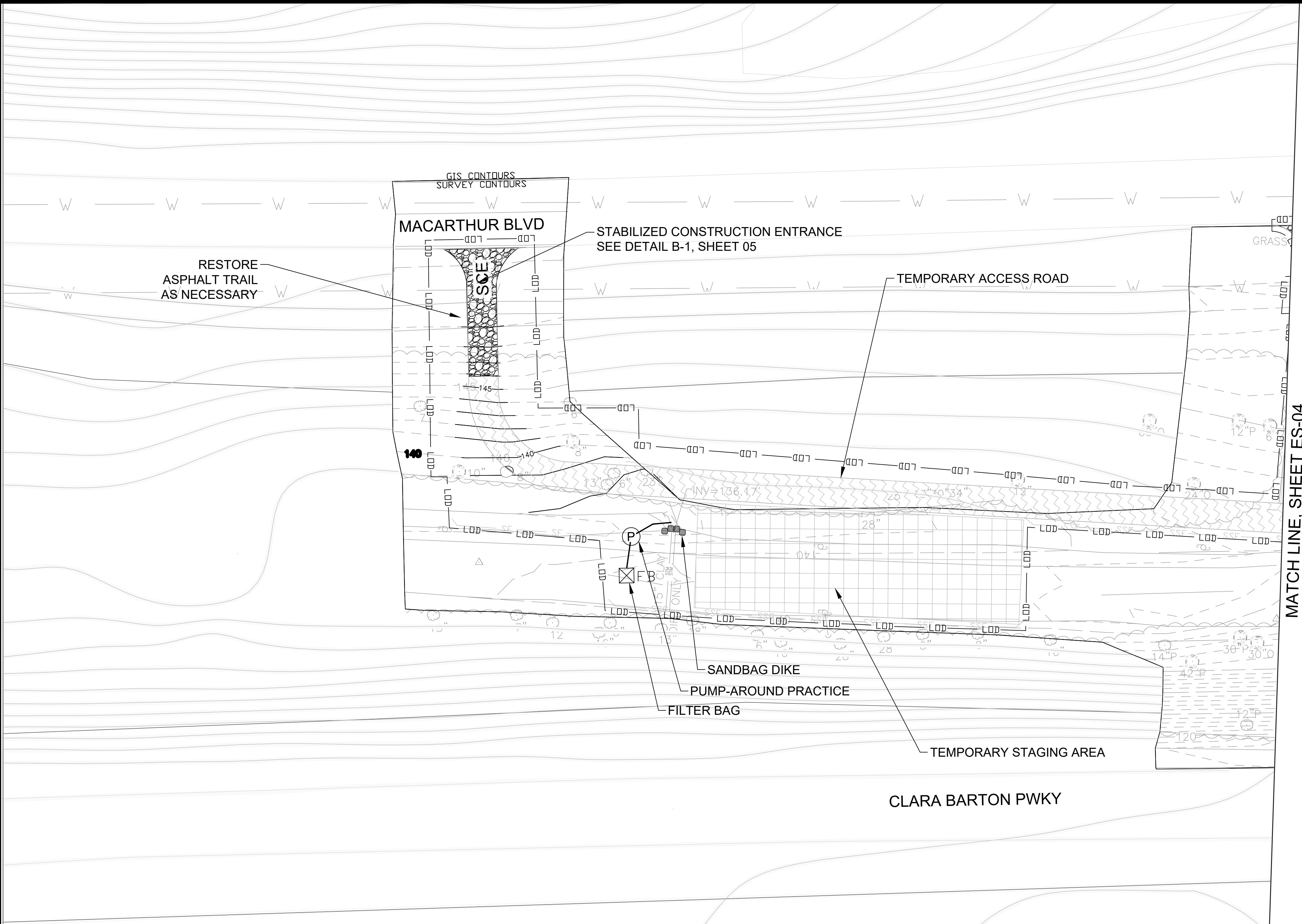
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TASK ORDER 20-FQ19172-INFR-005  
EROSION AND SEDIMENT CONTROL PLAN,  
PHASE 1 SHEET 2

SCALE  
AS NOTED

DRAWING NO.  
ES-02

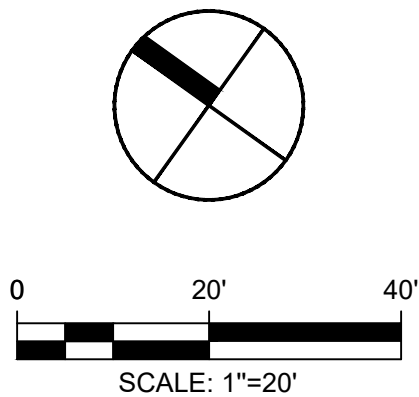
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- SEQUENCE OF CONSTRUCTION:
- PHASE 2:
1. UPON RECEIVING APPROVAL FROM EROSION AND SEDIMENT CONTROL INSPECTOR, REMOVE PHASE 1 EROSION AND SEDIMENT CONTROL MEASURES, AS NECESSARY, AND INSTALL PHASE 2 MEASURES. PUMP-AROUND PRACTICE SHALL REMAIN UNTIL WORK ADJACENT TO THE STREAM IS COMPLETE.
  2. REMOVE REMAINING TREES, AS SHOWN ON PLAN, AT CONTRACTOR'S DISCRETION.
  3. DEMOLISH ANY REMAINING TOP STEEL LONGITUDINAL MEMBERS, INCLUDING RAILROAD TIES, AND TRANSVERSE MEMBERS, AT CONTRACTOR'S DISCRETION.
  4. REMOVE REMAINING PEDESTAL FOUNDATIONS.
  5. PERFORM FINAL GRADING FOR SITE AND STABILIZE GRADED AREAS. RESTORE ASPHALT AREAS, AS SHOWN ON PLANS. REMOVE EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY FOR GRADING AND RESTORATION.
  6. UPON RECEIVING APPROVAL FROM EROSION AND SEDIMENT CONTROL INSPECTOR, REMOVE REMAINING PHASE 2 EROSION AND SEDIMENT CONTROL MEASURES. STABILIZE ANY REMAINING AREA.

- NOTES:
1. ELEVATIONS TO BE CONFIRMED BY THE CONTRACTOR IN THE FIELD.
  2. PROPOSED SURFACE ELEVATION SPOT GRADES ARE INTENDED TO PROVIDE A GENERAL UNDERSTANDING OF THE GRADING INTENT. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING SITE SURFACE TREATMENTS TO PROVIDE POSITIVE DRAINAGE.
  3. REFER TO STRUCTURAL DRAWINGS S-01 AND S-02 FOR BRIDGE DEMOLITION.
  4. TREE REMOVAL LOCATIONS TO BE STABILIZED WITH SAME-DAY STABILIZATION.
  5. CONTRACTOR SHALL PERFORM UNDER A 3-DAY DRY WEATHER FORECAST.



- LEGEND
- |  |                       |  |                                  |
|--|-----------------------|--|----------------------------------|
|  | STAGING AREA          |  | LIMIT OF DISTURBANCE             |
|  | TREE REMOVAL          |  | SUPER SILT FENCE                 |
|  | TEMPORARY ACCESS ROAD |  | STABILIZED CONSTRUCTION ENTRANCE |

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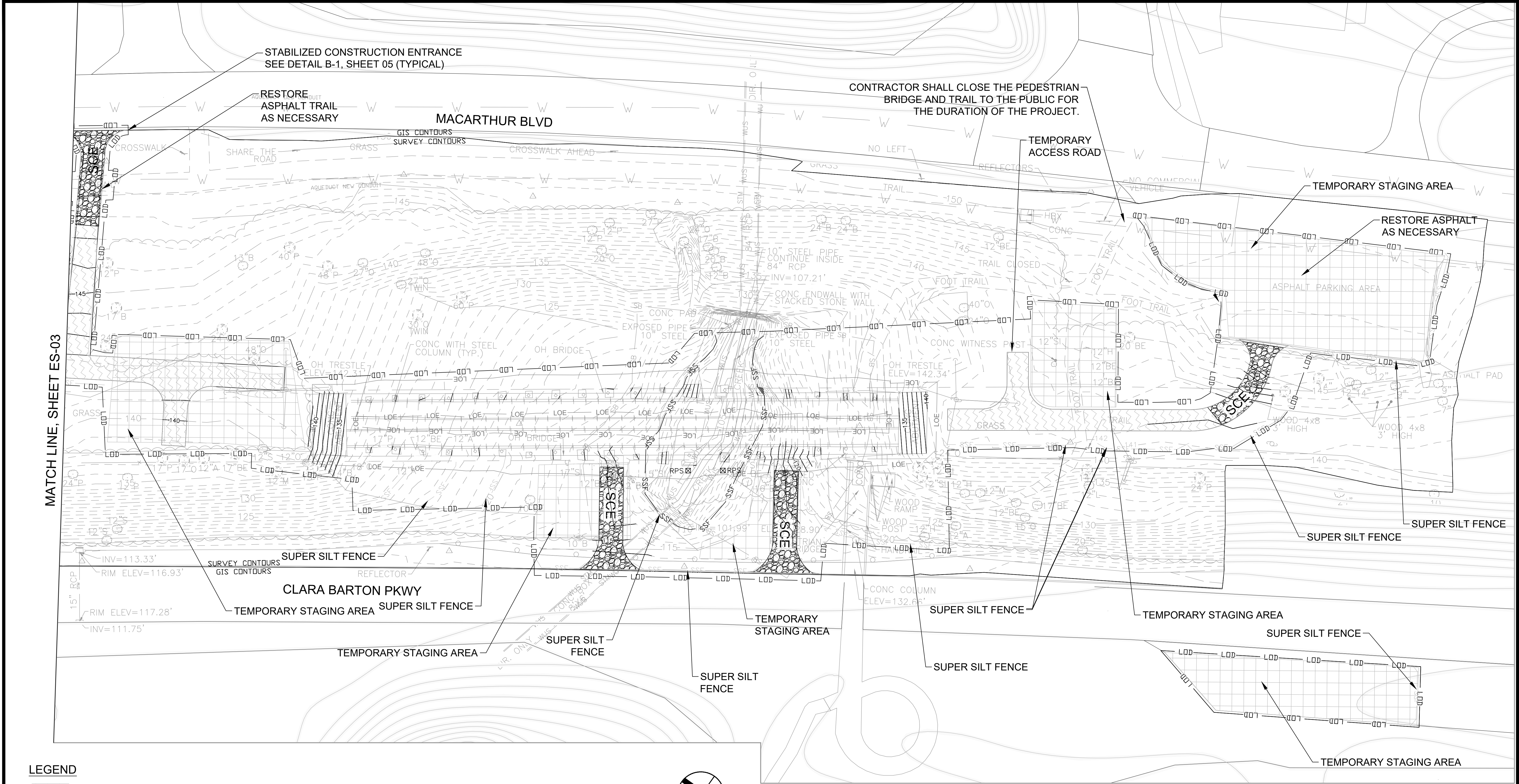
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OFFICE OF ENGINEERING AND ARCHITECTURE

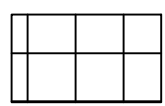
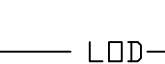
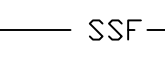
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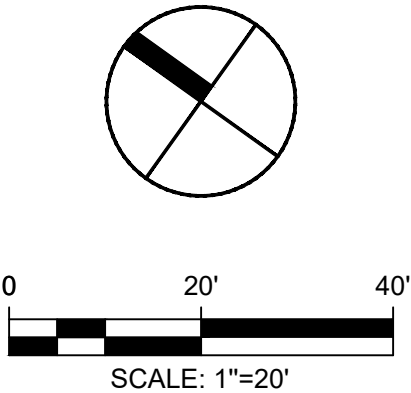
WALHONDING TRESTLE DEMOLITION TASK ORDER 20-FQ19172-INFR-005 EROSION AND SEDIMENT CONTROL PLAN PHASE 2 SHEET 1		
SCALE AS NOTED	DRAWING NO. ES-03	SHEET NO. 09 of 10





LEGEND

-  STAGING AREA
-  LIMIT OF DISTURBANCE
-  TREE REMOVAL
-  SUPER SILT FENCE
-  TEMPORARY ACCESS ROAD
-  STABILIZED CONSTRUCTION ENTRANCE



NOTES:

1. ELEVATIONS TO BE CONFIRMED BY THE CONTRACTOR IN THE FIELD.
2. PROPOSED SURFACE ELEVATION SPOT GRADES ARE INTENDED TO PROVIDE A GENERAL UNDERSTANDING OF THE GRADING INTENT. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING SITE SURFACE TREATMENTS TO PROVIDE POSITIVE DRAINAGE.
3. REFER TO STRUCTURAL DRAWINGS S-01 AND S-02 FOR BRIDGE DEMOLITION.
4. TREE REMOVAL LOCATIONS TO BE STABILIZED WITH SAME-DAY STABILIZATION.
5. CONTRACTOR SHALL PERFORM UNDER A 3-DAY DRY WEATHER FORECAST.

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WALHONDING TRESTLE DEMOLITION  
TASK ORDER 20-FQ19172-INFR-005  
EROSION AND SEDIMENT CONTROL PLAN,  
PHASE 2 SHEET 2

SCALE AS NOTED	DRAWING NO. ES-04	SHEET NO. 10 of 10
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